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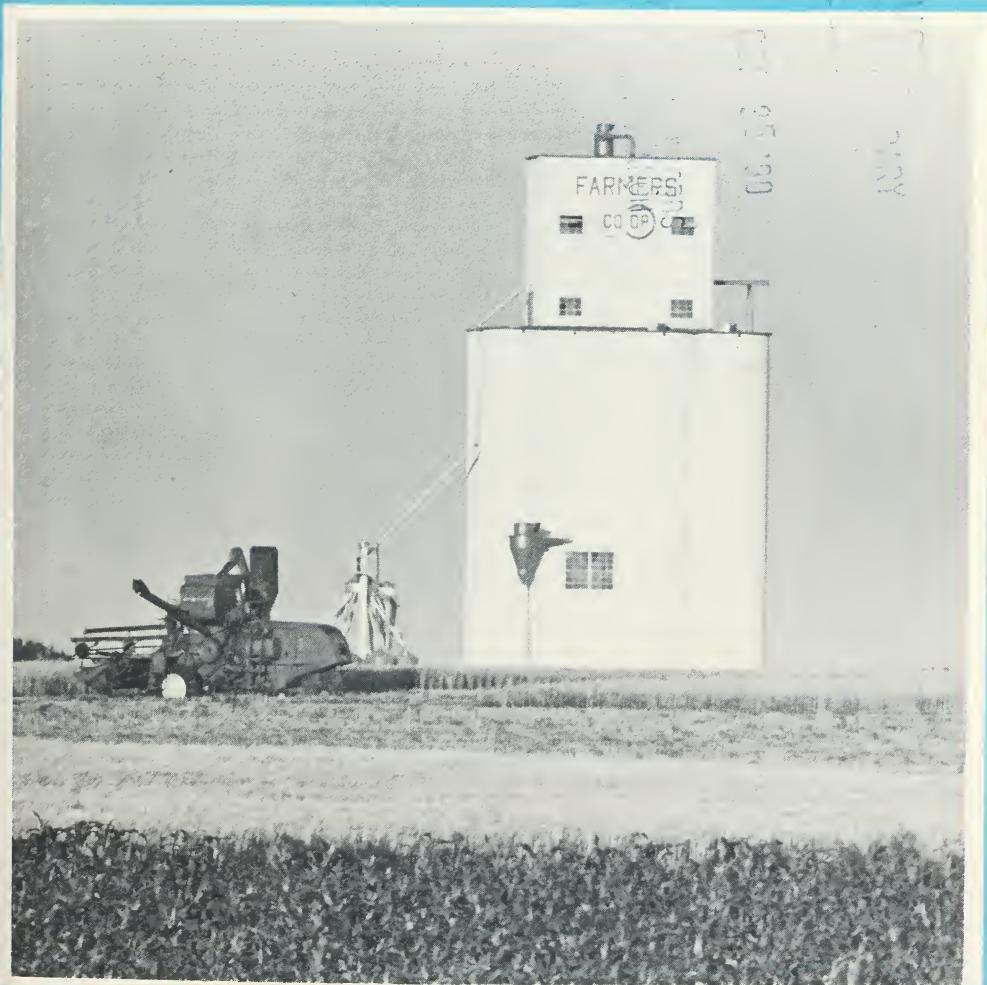
Farmer Cooperative Statistics

1981



FARMER COOPERATIVES IN THE UNITED STATES
COOPERATIVE INFORMATION REPORT 1
SECTION 27

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL COOPERATIVE SERVICE



Abstract

FARMER COOPERATIVE STATISTICS, 1981 by Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, Frances E. Mahan, Elizabeth J. Simmons, and John W. Stutzman, Cooperative Management Division, Agricultural Cooperative Service, U.S. Department of Agriculture, Cooperative Information Report 1, Section 27 March 1983.

A survey of U.S. farmer cooperatives for calendar year 1981 showed a continuing upward trend in total business volume but a continuing decline in number of organizations and memberships. Total gross business and total net business volume are reported for 6,211 cooperatives. Business volume, number of cooperatives, and cooperative memberships are reported by commodity and State for cooperatives classified as marketing, farm supply, and related service. A 10-year comparison shows changes in business volume, market share, and numbers. Data on balance sheet and net margins, number of full-time employees, and selected activities of other service organizations also are presented.

Key words: cooperatives, statistics, business volume, memberships, balance sheet, net margins, full-time employees.

Preface

Farmer cooperative statistics are collected annually to provide information on the progress and trends in cooperatives' growth and development. Many people use these statistics for various purposes such as research, technical assistance, education, planning, and public policy. Acquiring, analyzing, and disseminating farmer cooperative statistics are authorized by the Cooperative Marketing Act of 1926.

This report provides detailed information on the number, membership, and business volume of farmer cooperatives classified by commodity and functional type. Both gross (includes intercooperative business) and net (excludes intercooperative business) dollar volumes of cooperatives are shown.

Basic information is provided on the balance sheet and net margins of farmer cooperatives, and for the first time since 1957, number of full-time employees by principal product marketed and major functional type.

Data are collected from individual farmer cooperatives by mail survey of organizations identified by Agricultural Cooperative Service (ACS), as meeting the requirements of the ACS definition of a farmer cooperative.

A stratified random sample of a large proportion of farmer cooperatives is used to reduce the work of collecting and assembling data and to enable more timely publishing of statistics.

ACS depends on the cooperative community's response to its annual survey to develop a detailed and comprehensive set of statistics on farmer cooperatives. The time and effort taken to provide information and the rapidity with which it is furnished are greatly appreciated.

Readers wishing earlier statistics on farmer cooperatives by U.S. dollar volume totals for detailed farm products marketed and farm supplies handled, beginning in 1950-51, may send their requests to: Agricultural Cooperative Service, U.S. Department of Agriculture, 201 14th St., S.W., Room 3300, Auditor's Building, Washington, D.C. 20250.

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Highlights

The 1981 survey of marketing, farm supply, and related service cooperatives showed a continuing upward trend in business volume but a decrease in number of memberships and organizations.

Total gross business volume (including intercooperative business) handled by cooperatives amounted to \$101.5 billion. This was an increase of 9.7 percent from the \$92.5 billion reported in the previous year.

Total net business, excluding business done between cooperatives, amounted to \$71.5 billion, up 8 percent from the \$66.3 billion in 1980.

The total number of farmer cooperatives dropped from 6,293 in 1980 to 6,211, a net decrease of 82 associations. Each year, new cooperatives are formed and others disappear as they go out of business due to consolidation, merger, acquisition, or unsuccessful operations.

Cooperative memberships of 5,378,888 in 1980 dropped to 5,335,418, a decrease of less than 1 percent.

The gross value of farm products marketed by cooperatives amounted to \$70.2 billion in 1981, an increase of 10.2 percent from the gross volume of \$63.7 billion for 1980. The net value of these farm products, after eliminating duplication resulting from intercooperative business, amounted to \$53.3 billion, an 8.9-percent increase over the \$48.9 billion marketing net for the previous year.

The gross value of farm supplies handled by farmer cooperatives amounted to \$30.1 billion in 1981, increasing 8.9 percent above the \$27.7 billion in 1980. The net value of these supplies, after intercooperative business was eliminated, amounted to \$17.1 billion, 5.7 percent above the \$16.1 billion in 1980.

Receipts for services related to marketing farm products and handling farm supplies amounted to \$1.2 billion for both 1980 and 1981.

Iowa was the leading State in combined marketing, farm supply, and related service volume, with nearly \$7.5 billion—10.5 percent of total net business; California was second with \$5.9 billion—8.3 percent of the total; and Minnesota ranked third with nearly \$5.5 billion—7.6 percent of the total.

Minnesota had the most cooperatives with 722, North Dakota was second with 422, and Wisconsin was third with 412.

Combined assets for all farmer cooperatives totaled \$28.8 billion, down 2 percent from the \$29.4 billion for 1980. Net assets, after eliminating intercooperative investments, were \$26.3 billion in 1981, compared with \$26.9 billion in 1980—a 2.5-percent decrease.

Total liabilities were \$17.9 billion in 1981—down 4.8 percent from \$18.8 billion reported in 1980.

Net worth, or member and patron equity, increased 3.1 percent from \$10.6 to \$10.9 billion. Member and patron equity financed 37.9 percent of total assets in 1981, up from 36 percent in 1980.

Farmer cooperatives' net margins were more than \$1.4 billion, a 25.9-percent decrease from the \$1.9 billion in 1980. The \$1.4 billion included intercooperative dividends and refunds of \$558 million—up 3.1 percent from \$541 million in 1980.

Farmer cooperatives employed 204,000 full-time employees. Marketing cooperatives had 122,000 full-time employees. Dairy cooperatives (39,000) and grain cooperatives (33,000) together employed more than half (59 percent) of the persons employed by marketing cooperatives. Farm supply cooperatives accounted for 80,000 employees, while cooperatives performing related services only employed about 1,000 full-time personnel.

Farmer Cooperative Statistics 1981

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Definition of a Farmer Cooperative

For inclusion in the annual survey, a cooperative is defined as one that meets the following requirements:

(1) Farmers or agricultural producers hold the controlling interest in the cooperative; (2) no member of the cooperative is allowed more than one vote because of the amount of stock or membership capital owned or the cooperative does not pay dividends on stock or membership capital in excess of 8 percent a year, or the legal rate in the State, whichever is higher; and (3) the cooperative does not deal in products of nonmembers in an amount greater in value than it handles for its members.

This definition may result in showing a larger number of farmer cooperatives than found in lists or directories of State agencies or cooperative councils because many State cooperative statutes require both one member, one vote, and a limit on dividends on stock or membership capital. Another reason for differences in the count or number of cooperatives is that cooperatives may operate in a specific State for a considerable period of time before they are included in the national survey. This may be due to one of the following reasons: (1) Agricultural Cooperative Service (ACS) may not learn of the existence of the cooperative immediately; (2) the cooperative may not have completed and returned the initial questionnaire; or (3) no notification is received of a cooperative that quits operating.

Readers who wish to make comparisons from year to year in specific commodity groups, therefore, should keep in mind the differences in lists and classifications in State and Federal data. For example, State agencies frequently publish directories that include credit, electric, insurance, and other types of service cooperatives not directly related to marketing farm products or purchasing production supplies.

Classification of Cooperatives

Statistics are presented according to a cooperative's major function, or classification, such as marketing, farm supply, and related service cooperatives. These classifications are defined as follows:

Marketing cooperatives are associations whose primary business is marketing farm products for members—that is, more than 50 percent of total dollar volume was derived from the sale of members' farm products. Marketing cooperatives are further classified according to which major commodity of 13 classifications is predominant (in terms of dollar volume) in each association's business. If a cooperative consistently indicates it is handling a larger volume of a commodity than the one it was originally organized to handle, and which provided the basis for its initial classification, it is reclassified by the commodity currently representing the predominant product in its business volume.

Cooperatives first furnished data by individual commodities handled and services performed in the 1950-51 survey.¹ Cooperatives operating on a multistate basis were asked to furnish information on memberships and business volumes for the individual States they served. Before that time, all memberships and business were credited to the States in which each association maintained its headquarters.

Farm supply cooperatives are those whose farm supply business accounted for more than 50 percent of total dollar volume.

Farm supply cooperatives include those handling all types of farm production supplies and equipment such as feed, seed, fertilizer, petroleum products, farmstead equipment, and building supplies. Some also handle farm home items such as heating oil, lawn and garden equipment, and food.

Major functions of *related service* cooperatives are trucking, storing, drying, or similar services related to marketing or farm supply activities.

Many cooperatives handle more than one commodity and provide both marketing and farm supply facilities, as well as facilities and equipment to perform related services such as storing, drying, and trucking. These associations are classified

¹A detailed discussion of the revisions initiated in statistical methods in 1950-51 was given in *Statistics of Farmers' Marketing, Purchasing, and Service Cooperatives, 1950-51*, U.S. Dept. Agri., Farm Credit Admin., Misc. Rpt. 169, pp. 1-3.

according to the predominant commodity or function as indicated by their business volumes.

Other types. Additional data on the number, participation, and activity of service cooperatives or organizations such as rural electric cooperatives, production credit associations, rural credit unions, and dairy herd improvement associations are summarized.

Organizational Structures

Centralized

Most farmer cooperatives are centralized organizations. Individual farmers make up the membership. These 6,014 centralized cooperatives usually serve a local area or community, county, or several counties. Most local associations usually perform a limited number of the first steps of marketing. In farm supply associations, practically all sales are at the retail level. A few centralized cooperatives operate over large geographic areas and have members in several States. They often provide more vertically integrated services such as processing farm products or manufacturing feed and fertilizer.

Bargaining associations usually have centralized organizational structures. These associations derive all or a major portion of business volume from negotiating with distributors, processors, and other buyers and sellers over price, quantities, grade, terms of sale, and other factors involved in marketing farm products; only a few bargain for the purchase of farm supplies. While the primary function of such an association is to bring buyers and sellers together to contract for the sale of members' products, many bargaining associations now perform additional functions. For example, dairy bargaining associations at one time generally performed only price negotiation. Now, many perform additional functions, such as physically handling a portion of the milk and making spot sales for their patrons. Bargaining associations, like other dairy marketing cooperatives, represent their members at Federal or State milk marketing order hearings.

Federated

Federated cooperatives comprise two or more member associations organized to market farm products, purchase pro-

duction supplies, or perform bargaining functions. Member associations often operate at points quite distant from federation headquarters. One hundred eight federated cooperatives have been identified. Individual farmers are not members of strictly federated associations, rather, they are members of cooperatives that comprise the federation—sometimes called a regional cooperative. Also, some federations are made up of regional cooperatives—often called interregional associations.

Mixed

A small number of cooperatives have both individual farmer members and autonomous cooperative members. Therefore, these associations are a combination of both the centralized and federated structures. Often, these cooperatives serve large geographic areas with members in many States and provide a variety of integrated services. Eighty-nine cooperatives have been identified as having a "mixed" structure.

Ten-Year Comparison of Cooperative Growth

Business volume of farmer cooperatives more than tripled in the decade between fiscal year 1972 and calendar year 1981. As cooperatives declined in number, they grew in size and increased their importance as purchasers of supplies and marketers of products for members.

Business Volume Increases

Net cooperative business, unadjusted for changes in the price level, increased from \$21.7 billion in 1972 to \$71.5 billion in 1981 (table 1).

During this 10-year period, marketing of farm products declined slightly from 76 to 75 percent of annual net business volume; purchases of production supplies rose from 22 to 24 percent; and related services remained about 2 percent.

Marketing volume increased from \$16.5 billion to \$53.3 billion, supplies purchased from \$4.7 billion to \$17.1 billion, and services provided from \$462 million to \$1.2 billion.

Grain, soybeans, and soybean meal and oil; dairy products; fruits and vegetables; and livestock and livestock products

Table 1—Number and net volume of cooperatives handling farm products, farm supplies, and service receipts, 1972 and 1981¹

Item	1972		1981	
	Cooperatives handling	Net volume	Cooperatives handling ²	Net volume
	<i>No.</i>	<i>1,000 dol.</i>	<i>No.</i>	<i>1,000 dol.</i>
Products marketed:				
Beans and peas (dry edible).....	53	45,956	59	153,970
Cotton and cotton products	510	466,171	480	2,099,426
Dairy products	721	5,852,097	470	15,051,776
Fruits and vegetables	449	1,696,323	388	4,495,937
Grain, soybeans, and soybean meal and oil.....	2,725	3,806,121	2,410	19,777,374
Livestock and livestock products	613	2,246,899	435	5,195,806
Nuts.....	52	307,135	49	692,510
Poultry products	190	550,291	74	1,157,406
Rice	67	365,244	57	1,279,314
Sugar products.....	66	694,158	41	1,924,522
Tobacco.....	30	355,006	36	471,817
Wool and mohair	194	14,399	140	35,488
Miscellaneous	97	63,265	114	949,604
Total farm products.....	³ 5,331	16,463,065	³ 4,308	53,284,950
Supplies purchased:				
Building materials.....	2,222	192,525	2,097	447,106
Containers.....	887	128,570	658	84,676
Farm chemicals	3,433	233,678	3,684	1,275,032
Farm machinery and equipment	1,319	137,271	1,822	378,460
Feed	3,898	1,430,122	3,603	3,530,634
Fertilizer	3,992	840,052	3,789	3,676,275
Meats and groceries	544	65,181	482	163,480
Petroleum products	2,667	1,080,835	2,911	5,646,014
Seed.....	3,701	169,876	3,607	574,816
Other supplies.....	4,412	461,493	4,326	1,282,137
Total farm supplies.....	³ 5,665	4,739,603	³ 5,009	17,058,631
Receipts for services:				
Trucking, cotton ginning, storage, grinding, locker plants, miscellaneous.....	³ 4,804	³ 462,240	³ 4,608	⁴ 1,190,385
Total business.....	³ 7,797	21,664,908	³ 6,211	71,533,967

¹Preliminary. Totals may not add due to rounding.

²The numbers are based on 1980 survey results due to sampling procedures used in 1981.

³Adjusted for duplication arising from multiple activities performed by many cooperatives.

⁴Charges for services related to marketing or purchasing but not included in the volume reported for these activities.

increased from 83 percent of all products marketed in 1972 to 84 percent in 1981.

In 1981, grain, soybeans, and soybean meal and oil accounted for a substantially greater proportion of total cooperative business than in 1972. Dairy products and livestock and livestock products accounted for substantially less. Fruits and vegetables showed a moderate decrease. Among lesser commodities, both poultry products and tobacco declined considerably.

In the farm supply group, three items—feed, petroleum products, and fertilizer—were especially important. They accounted for 71 percent of the total production supply business in 1972 and 75 percent in 1981.

Considering changes in the group, however, the proportion of dollar business volume accounted for by feed declined, while the proportion accounted for by fertilizer and petroleum products increased substantially. Farm chemicals also increased in proportion, while other production supplies showed little change.

Market Share Greater

Cooperatives handled about 26 percent of the agricultural products marketed in 1972. This share increased to 33 percent in 1981.² Market shares for individual commodities higher than the overall average were milk and dairy products, rice, grain and soybeans, and cotton and cotton products.

The proportion of farm supplies handled through cooperatives was 17 percent in 1972. This proportion increased to 20 percent, due mostly to larger volumes of fertilizer, petroleum products, and farm chemicals moving through cooperatives. These production supplies were handled in greater proportion than the overall average.

Number of Organizations Declined

The total number of marketing, farm supply, and related service cooperatives declined from 7,797 in 1972 to 6,211 in 1981 (table 2). The number of marketing cooperatives declined from 4,864 to 3,743 and farm supply cooperatives from 2,781 to 2,356. The number of service cooperatives declined from 152 to 112.

²Agricultural Cooperative Service, unpublished data.

Table 2—Number and percentage of predominantly marketing, farm supply, and related service cooperatives, selected years, 1950-51 to 1981

Period ¹	Marketing	Farm supply	Related service	Total
Number	Percent	Number	Percent	Number
				Percent
1950-51	6,519	64.8	3,283	32.6
1955-56	6,284	63.5	3,375	34.1
1960-61	5,727	62.5	3,222	35.2
1961-62	5,626	62.2	3,206	35.5
1962-63	5,502	61.8	3,211	36.0
1963-64	5,421	61.3	3,226	36.5
1964-65	5,305	61.8	3,085	35.9
1965-66	5,194	62.4	2,949	35.4
1966-67	5,076	62.5	2,871	35.3
1967-68	4,929	62.1	2,835	35.7
1968-69	4,773	61.6	2,793	36.1
1969-70	4,784	62.1	2,775	35.6
1970-71	5,097	63.7	2,731	34.2
1971-72	4,864	62.4	2,781	35.7
1972-73	4,897	62.3	2,801	35.7
1973-74	4,822	62.2	2,778	35.8
1974-75	4,770	62.4	2,729	35.7
1975-76	4,658	61.8	2,731	36.3
1976-77	4,008	59.5	2,593	38.5
1978 ²	3,930	59.6	2,550	38.6
1979	3,825	59.3	2,507	38.9
1980	3,808	60.5	2,369	37.7
1981 ³	3,743	60.3	2,356	37.9

¹For years before 1950-51, see appendix table 5, FCS General Report 128 in libraries.

²Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

³Preliminary.

Business Size Increases

Measured by annual gross business volume, farmer cooperatives increased in size. Although the majority of cooperatives remain small and primarily serve local areas, a growing minority are seeking regional, or even national, markets as a means of business growth and survival.

The increased size of individual cooperatives comes in part from mergers and consolidations. However, data used were not adjusted for changes in price levels and some size changes are due in part to inflationary effects.

In 1981, nearly 10 percent of all farmer cooperatives reported business volumes of \$15 million or more, representing 73.2 percent of the total gross dollar volume. Farmer cooperatives with business volumes of \$200 million or more represented 51.6 percent of total sales compared with 45.1 percent in the 1976³ fiscal period.

The 100 largest cooperatives (usually operating over large geographic areas) make up an important minority of farmer cooperatives. During 1976, the 100 largest cooperatives accounted for about \$31.5 billion, or 56.4 percent of total gross business volume. By 1981, the 100 largest cooperatives⁴ accounted for nearly \$56.6 billion in business volume, 55.7 percent of the total.

Number of Cooperatives

The 1981 survey accounted for 6,211 marketing, farm supply, and related service⁵ cooperatives, compared with 6,293 in 1980.

The decrease of 82 associations was 1.3 percent less than the number in 1980. The decline in number largely reflected a continuing trend involving merger, consolidation, acquisition, or dissolution.

³Comparable data not available for the 1972 fiscal period.

⁴Based on amount of annual gross sales (includes intercooperative sales) but without regard to size of assets.

⁵Related services include trucking, storage, grinding, drying, and similar services affecting the form, quality, or location of farm products and supplies handled by cooperatives. They do not include credit, electric, or telephone services not directly related to marketing or purchasing activities.

Figure 1

Number of Cooperatives, 1981

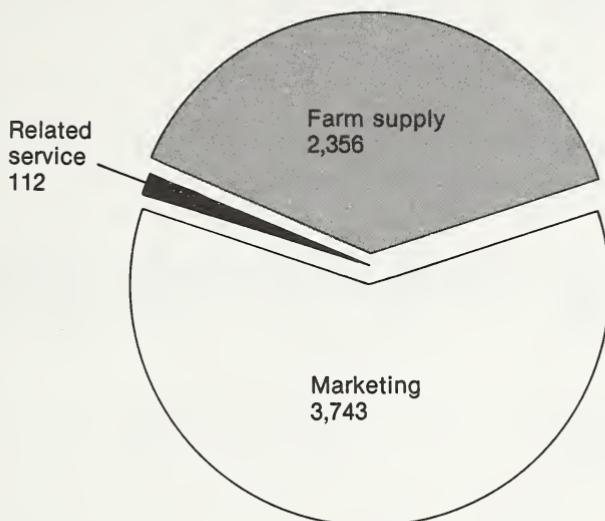


Figure 1 shows that 3,743 of the 6,211 cooperatives primarily marketed farm products, 2,356 handled farm production supplies, and 112 provided related services.

Comparison of 1981 with 1980 data shows that marketing cooperatives decreased from 60.5 to 60.3 percent of the total number of cooperatives; farm supply cooperatives increased from 37.6 to 37.9 percent; and related service cooperatives remained about 1.8 percent.

The percentage changes in table 2 are due to some extent to the reclassification of cooperatives because of changes in the function from which they derive the major portion of their dollar volume. The primary examples are marketing cooperatives whose major business became the sale of farm supplies, or farm supply cooperatives in which marketing took a dominant role.

In table 3, cooperatives are classified according to the business activity that consistently accounted for the largest percent of their dollar volume.

Minnesota had the most cooperatives with 722, North Dakota was second with 422, and Wisconsin was third with 412.

Table 3—Cooperative numbers¹ and memberships, by major business activity and State, 1981²

State	Beans and peas, dry edible		Cotton and cotton products		Dairy products		Fruit and vegetables ³	
	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Member- ships ⁴
<i>Number</i>								
Alabama.....	7	237	1	182	3	1,005		
Alaska.....	1	1	14					
Arizona.....	5	1,810	1	176	5	1,234		
Arkansas.....	22	1,403	(5)	850	8	1,240		
California.....	43	5,972	12	1,520	110	24,466		
Colorado.....	4	693	5	605	12	1,226		
Connecticut.....			(2)	512	1	9		
Delaware.....		(5)	(5)	149	1	1,259		
Florida.....		3	5	369	48	3,866		
Georgia.....		1	1	783	2	56		
Hawaii.....			1	9	8	507		
Idaho.....	1	863	1	1,142	2	2,347		
Illinois.....			9	4,052	4	81		
Indiana.....			2	3,496	1	163		
Iowa.....			15	9,098	1	12		
Kansas.....			2	2,105	1	23		
Kentucky.....			2	3,356	1	398		
Louisiana.....			2	1,115	4	299		
Maine.....			1	530	7	1,371		
Maryland.....			2	1,468	2	429		
Massachusetts.....			2	677	1	368		
Michigan.....	2	480	60	7,746	19	4,108		
Minnesota.....			53	34,126	1	78		

Mississippi.....	4 ¹	3,658	2	820	1	51
Missouri.....	(²)	21	3	3,937	1	236
Montana.....			2	736	2	
Nebraska.....	(²)	20	2	1,915		
Nevada.....			61			
New Hampshire.....			2	326		
New Jersey.....			2	268	11	1,587
New Mexico.....	18	3,737			2	42
New York.....	1	590	78	9,759	9	2,355
North Carolina.....			1	613	9	1,879
North Dakota.....			5	1,681	1	105
Ohio.....			9	6,203	8	2,438
Oklahoma.....	46	21,932	(²)	1,066	13	1,612
Oregon.....			10	1,479		
Pennsylvania.....			25	10,531	8	1,748
Rhode Island.....			(²)	75		
South Carolina.....	1	436	2	170	5	208
South Dakota.....			4	2,324		
Tennessee.....	(²)	65,896	38	1,796	3	50
Texas.....	250		4	3,185	6	1,093
Utah.....			3	813	3	125
Vermont.....			7	2,765	1	290
Virginia.....	(²)	10	4	1,688	5	139
Washington.....			4	1,376	34	7,626
West Virginia.....			2	446	(²)	19
Wisconsin.....			95	36,063	3	882
Wyoming.....	1	1,195	(²)	67		
Foreign.....				(²)		18
United States.....	12	4,182	441	106,946	446	164,243
					366	367,048

See end of table for footnote references.

Table 3—Cooperative numbers¹ and memberships, by major business activity and State, 1981²—Continued

Mississippi.....	4	1,851	5	36,919	(5)	(5)	842
Missouri.....	22	21,996	8	14,339			10
Montana.....	43	22,719	1	933			20
Nebraska.....	153	83,603	4	7,139			
Nevada.....	1	9	39	39			
New Hampshire.....							2
New Jersey.....							6
New Mexico.....	1	1,197	(5)	18	172		
New York.....			4	35,752		2	56
North Carolina.....			4	2,204	1	1	4,140
North Dakota.....	256	98,272	15	8,828			
Ohio.....	90	59,754	4	34,368			10
Oklahoma.....	74	49,196	1	7,200	2		
Oregon.....	10	5,950	9	4,042	1		
Pennsylvania.....					2,361	(5)	4,951
Rhode Island.....					310	1	47
South Carolina.....	1	133	2	83	(5)		56
South Dakota.....	125	75,971	3	7,073	(5)		1
Tennessee.....	(3)	200	4	605	(5)		15,693
Texas.....	57	22,574	2	3,489	(5)		5,572
Utah.....	3	4,652	1	7,119	(5)		137
Vermont.....							1
Virginia.....	4	1,807	15	5,401	1	3,806	967
Washington.....	32	12,027	(5)	414			
West Virginia.....	(2)	1	8	1,885			
Wisconsin.....	2	2,441	79	35,145			90
Wyoming.....	2	669	1	161			
Foreign.....			(5)	200			
United States.....	1,777	1,154,965	376	405,993	17	42,513	25
							109,533

See end of table for footnote reference.

Table 3—Cooperative numbers¹ and memberships, by major business activity and State, 1981²—Continued

Mississippi.....	1	183	5	3	(5)	3,660	(5)	(5)	250
Missouri.....		73	5	3				22	1,653
Montana.....		3	535					23	250
Nebraska.....		2	1,063					55	1
Nevada.....		5	3					55	750
New Hampshire.....		5	117					1	300
New Jersey.....									
New Mexico.....			4						
New York.....				9		72,357	4	4	747
North Carolina.....			2					2	85
North Dakota.....		1	853					1	5,500
Ohio.....		2	410	1		8,160			
Oklahoma.....		1	169					55	350
Oregon.....								55	2
Pennsylvania.....								17	4,409
Rhode Island.....									
South Carolina.....				1	1	17,028			
South Dakota.....					65				
Tennessee.....				1	9	57,782	2	2	5,593
Texas.....			1	161					
Utah.....				9				3	
Vermont.....				1					406
Virginia.....									
Washington.....					3	16,820	16	16	3,118
West Virginia.....					18		1	1	12
Wisconsin.....							5,130	16	1,865
Wyoming.....							2	1,851	1
Foreign.....								7	2,626
United States.....	54	29,621	39	11,387	34	296,559	119	119	1,319
									53,487

See end of table for footnote references.

Table 3—Cooperative numbers¹ and memberships, by major business activity and State, 1981²—Continued

State	Miscellaneous marketing			Total marketing			Farm supply			Related service ¹²			Total Member- ships ⁴
	Co-op hqts. in State	Member- ships ⁴											
Alabama	26	38,504	55	50,399	3	577	84	84	1	1	89,480	14	
Alaska	1	14	4,982	2	34,000	3	1,307	16	122	16	38,982		
Arizona	14	45,115	54	56,783	3	855	15	855	240	240	103,205		
Arkansas	65	50,342	33	17,431							68,628		
California	192												
Colorado	50	21,645	33	21,633	1	5	84	84	5	5	43,283		
Connecticut	1	1,601	3	2,728	1	34	5	5	5	5	4,363		
Delaware	1	1,411	4	9,391							10,802		
Florida	12	58	16,484	6	3,796	2	13,171	66	66	66	33,451		
Georgia	550	11	62,095	10	9,131						21	71,226	
Hawaii	16	1,618	6	2,496	2	85	24	24	62	62	4,199		
Idaho	33	43	20,640	19	22,471							43,111	
Illinois	118	177	132,462	103	143,793	7	2,593	287	287	287	278,848		
Indiana	21	54	169,456	43	112,555	1	105	98	98	98	282,116		
Iowa	485	249	163,423	133	162,190	1	254	383	383	383	325,866		
Kansas	2	199	155,031	47	46,740						246	201,771	
Kentucky	24	97,476	47	155,982							71	253,458	
Louisiana	47	6,643	40	11,338	5	173	92	92	10	10	18,154		
Maine	9	1,920	1	6,902							8,822		
Maryland	5	6,060	22	39,600	4	314	31	31	31	31	45,974		
Massachusetts	8	2,590	6	7,447	(5)	52	14	14	119	119	10,089		
Michigan	59	58,954	57	41,394	3	79	72	72	72	72	100,427		
Minnesota	449	221,153	263	301,884							525,709		

Mississippi	1	355	54	44,631	70	69,503	2	199	126	114,333
Missouri		34	44,340	95	192,071	2	625	131	131	237,036
Montana		73	26,812	69	36,551	3	8	275	142	63,363
Nebraska	2	218	94,208	109	118,949	55		3	275	213,165
Nevada		3	133	(5)	1,481	7		3	3	188
New Hampshire		3	1,195	(5)	10,302	1	17	25	3	2,676
New Jersey	1	40	17	4,491	7				25	14,810
New Mexico	(5)	1	21	5,171		1	300	22		5,471
New York	1	24	98	48,693	132	112,530	3	1,097	233	162,320
North Carolina		26	92,546	2	42,715	4	155	32	32	135,416
North Dakota		280	109,824	140	70,321	2	(10)	422	422	180,145
Ohio	1	11	117	116,854	64	61,576	3	295	184	178,725
Oklahoma		123	87,056	20	15,876	1	659	144	103,591	
Oregon	1	30	37	9,599	20	45,667	1	33	58	55,299
Pennsylvania		60	20,786	26	54,098	3	145	89	89	75,029
Rhode Island		(5)	76	(5)	727	1	30	1	1	833
South Carolina		12	25,047	1	13,858			13	13	38,905
South Dakota	1	48	135	91,075	106	76,950	1	41	242	168,066
Tennessee	1	752	19	76,917	85	77,681			104	154,598
Texas	1	21	338	108,693	59	23,605	7	925	404	133,223
Utah	1	159	18	13,420	10	8,526			28	21,946
Vermont		8		3,056	1	3,719	1	22	10	6,797
Virginia		49	33,756	56	147,432	1	14	106	106	181,202
Washington	4	203	75	21,676	53	72,301	1	154	129	94,130
West Virginia		26		9,436	21	62,685			47	72,121
Wisconsin	1	17	183	79,083	213	269,747	16	241	412	349,071
Wyoming		13		3,809	10	6,955			23	10,764
Foreign		(5)		219				(5)	219	
United States	37	5,743	3,743	2,452,219	2,356	2,855,963	112	27,236	6,211	5,335,418

See next page for footnote references.

Footnotes to table 3.

¹Includes independent local cooperatives, federations, centralized cooperatives, and cooperatives with mixed organizational structures.

²Data covering operations of cooperatives for calendar year 1981.

³Cooperatives performing specific services related to a commodity are included. Incorporated local associations of a federation that performs the actual marketing or processing are counted.

⁴Includes members (those entitled to vote for directors) but does not include nonvoting patrons. (There is some duplication in these membership figures because many farmers belong to more than one cooperative.) Totals may not add due to rounding.

⁵The cooperative with which this membership is affiliated has been counted in the State in which the cooperative maintains its headquarters. (Foreign members of U.S. headquartered cooperatives are in Canada and Mexico).

⁶Includes soybean marketing and processing.

⁷Membership of nut cooperatives that market peanuts fluctuates from year to year and is affected by the extent to which producers participate in price stabilization programs.

⁸Includes sugar, sugarcane, sugar beets, honey, maple syrup, molasses, and sorghum.

⁹Member-patrons. Number fluctuates considerably from year to year due to participation in price stabilization programs.

¹⁰No individual memberships or members located outside the State in which cooperative headquarters is located.

¹¹Includes forest products, hay, hops, nursery stock, coffee, and other farm products not separately classified.

¹²Cooperatives providing services related to marketing or purchasing activities.

Number of Memberships

Memberships in marketing, farm supply, and related service cooperatives totaled 5,335,418 in 1981, a decrease of less than 1 percent from the 5,378,888 memberships in 1980 (table 4). The long-term trend has been one of decline, reflecting, in part, the decreasing number of farmers in the United States. Many farmers were members of more than one cooperative and each membership was counted. Total membership contains duplication that cannot be eliminated with current reporting methods.

Though many farmers maintained membership in more than one cooperative, more than a million members, or 19 percent, did not actively patronize their cooperatives.

Membership figures often vary widely from year to year for cooperatives participating in price stabilization programs, particularly for those handling cotton, peanuts, or tobacco.

Table 4—Memberships in predominantly marketing, farm supply, and related service cooperatives, selected years, 1950-51 to 1981

Period ¹	Marketing	Farm supply	Related service	Total
	Number	Percent	Number	Percent
1950-51	4,117,950	58.1	2,878,890	40.6
1955-56	4,223,260	54.6	3,443,610	44.6
1960-61	3,473,425	48.2	3,679,675	51.1
1961-62	3,420,100	48.2	3,634,690	51.2
1962-63	3,582,110	49.6	3,595,890	49.8
1963-64	3,612,535	51.0	3,425,200	48.4
1964-65	3,790,915	53.5	3,250,840	45.9
1965-66	3,635,605	53.3	3,154,490	46.2
1966-67	3,298,435	50.7	3,168,985	48.8
1967-68	3,225,185	50.0	3,186,640	49.5
1968-69	3,141,245	49.4	3,189,460	50.1
1969-70	3,102,745	48.8	3,222,435	50.7
1970-71	3,105,005	50.4	3,027,515	49.2
1971-72	3,133,505	51.0	2,991,240	48.7
1972-73	3,117,980	50.9	2,988,050	48.8
1973-74	3,111,255	51.0	2,972,455	48.7
1974-75	3,126,500	51.1	2,971,400	48.5
1975-76	2,811,858	47.6	3,056,071	51.7
1976-77	2,655,018	46.1	3,066,023	53.3
1978 ²	2,595,000	45.6	3,063,000	53.8
1979	2,530,733	45.0	3,060,020	54.4
1980	2,541,995	47.3	2,804,482	52.1
1981 ³	2,452,219	46.0	2,855,963	53.5

¹For years before 1950-51, see appendix table 6, FCS General Report 128 in libraries.

²Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

³Preliminary.

Classification of members is affected also by the diversity of services offered by cooperatives. For example, a member may use a cooperative to market only one of the farm products handled by the cooperative, or a member may use a cooperative classified in the marketing group only for purchasing one or more types of production supplies. The member's business with the cooperative, therefore, may not be in the group that represents the cooperative's major business volume (which determines how the cooperative is classified in this report). The membership, however, will be included arbitrarily in that classification.

Minnesota continued to lead in memberships with 525,709 (table 3). Wisconsin was second with 349,071, and Iowa was third with 325,866.

Table 5—Number of farmer cooperatives and full-time employees by principal products marketed and major function, 1981

Principal products marketed and major function	Cooperatives	Full-time employees
<i>Number</i>		
Products marketed:		
Cotton and cotton products	441	5,580
Dairy products	446	39,427
Fruits & vegetables	366	20,711
Grain, soybeans, and soybean meal & oil.....	1,777	32,965
Livestock, wool, and products	495	2,139
Poultry products	25	12,199
Rice	54	2,252
Sugar products.....	39	5,256
Other products ¹	100	1,854
 Total farm products.....	3,743	122,383
Total farm supplies.....	2,356	80,188
Total related services	112	987
Combined total.....	6,211	203,558

¹Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Number of Full-time Employees

The 6,211 farmer marketing, farm supply, and related service cooperatives employed nearly 204,000 persons on a full-time basis in 1981, or an average of 33 persons per association (table 5).

Marketing cooperatives, totaling 3,743, employed more than 122,000 persons—also an average of nearly 33 persons per association. Dairy marketing cooperatives had the most full-time employees with 39,000, while cooperatives primarily marketing grain, soybeans, and soybean meal and oil were in second place with 33,000—together accounting for more than half (59 percent) of the full-time employees of marketing cooperatives.

The 2,356 farm supply cooperatives employed more than 80,000 persons on a full-time basis, or an average of 34 persons per association.

Related service cooperatives, numbering 112, accounted for about 1,000 full-time employees—an average of nearly 9 persons per association.

Business Volume

Total gross business volume of 6,211 marketing, farm supply, and related service cooperatives amounted to \$101.5 billion (table 6). This was an increase of 9.7 percent over the \$92.5 billion gross reported in 1980.

Total net business volume of farmer cooperatives amounted to \$71.5 billion. This amount included \$53.3 billion for farm products marketed, \$17 billion for farm supplies purchased, and \$1.2 billion for services performed. The total net figure of \$71.5 billion, which excludes intercooperative business (the difference between gross and net business volumes), represented an increase of 8 percent over the \$66.3 billion in 1980. However, discounting for inflation, real growth was estimated to be 3.9 percent.⁶ Intercooperative business rose to \$29.9 billion from \$26.3 billion in 1980.

⁶By deflating the volume of farm products handled by cooperatives in 1981 by indices of producer prices for farm products and processed foods and feeds and the volume of farm supplies and related services by the index on prices paid by farmers for production of all commodities excluding interest, taxes, and wage rates, total business volume amounted to \$68.9 billion—only a 3.9-percent increase over the 1980 volume.

Table 6—Business volume of marketing, farm supply, and related service cooperatives, selected years, 1950-51 to 1981

Period ¹	Gross volume (includes intercooperative business)			Net volume (excludes intercooperative business)				
	Farm products	Farm supplies	Related services ²	Total	Farm products	Farm supplies	Related services ²	Total
1,000 dollars								
1950-51	7,984,777	2,437,521	99,958	10,522,256	6,361,766	1,685,413	99,958	8,147,137
1955-56	9,514,387	2,972,696	214,880	12,701,963	7,495,159	2,046,086	214,880	9,756,125
1960-61	12,43,722	3,744,711	305,600	16,194,033	9,631,247	2,472,286	305,600	12,409,133
1961-62	12,992,656	3,914,849	302,102	17,209,607	10,160,364	2,561,338	302,102	13,023,804
1962-63	13,893,463	4,145,263	303,281	18,342,007	10,834,165	2,704,400	303,281	13,841,846
1963-64	14,532,553	4,393,864	313,103	19,239,520	11,209,069	2,831,586	313,103	14,353,758
1964-65	14,816,217	4,495,217	315,527	19,626,961	11,516,217	2,910,188	315,527	14,741,932
1965-66	15,489,446	4,804,443	325,071	20,618,960	12,197,744	3,085,382	325,071	15,608,197
1966-67	16,265,376	5,314,427	317,570	21,897,373	12,899,762	3,339,207	317,570	16,556,539
1967-68	16,556,620	5,565,045	316,014	22,437,679	13,189,137	3,544,854	316,014	17,040,005
1968-69	16,841,051	5,643,341	350,761	22,835,153	13,420,765	3,615,271	350,761	17,386,797
1969-70	18,388,420	5,986,359	391,176	24,765,955	14,816,000	3,873,211	391,176	19,080,387
1970-71	20,118,015	6,748,989	414,299	27,281,303	15,801,872	4,339,529	414,299	20,555,700
1971-72	20,794,406	7,395,899	462,240	28,652,545	16,463,065	4,739,603	462,240	21,664,908
1972-73	25,110,374	8,841,293	502,800	34,454,467	19,573,016	5,914,962	502,800	25,990,778
1973-74	35,632,381	11,395,208	657,730	47,685,319	26,943,792	7,764,027	657,730	35,365,549
1974-75	40,313,162	13,416,013	744,477	54,473,652	31,937,363	8,660,605	744,477	41,342,445
1975-76	39,402,165	15,553,633	855,277	55,811,075	29,783,115	9,411,685	855,277	40,050,077
1976-77	40,803,827	17,790,798	892,977	59,487,602	32,133,711	10,557,465	892,977	43,584,153
1978 ³	45,072,429	18,604,619	947,655	64,624,703	35,305,600	11,051,865	947,655	47,305,120
1979	53,668,810	22,669,818	1,053,559	77,392,187	41,693,349	13,521,489	1,053,559	56,268,397
1980	63,650,268	27,660,042	1,209,225	92,519,535	48,911,018	16,134,111	1,209,225	66,254,354
1981 ⁴	70,161,551	30,127,323	1,190,385	101,479,260	53,284,950	17,058,630	1,190,385	71,533,967

Period ¹	Gross volume (includes intercooperative business)			Net volume (excludes intercooperative business)		
	Farm products	Farm supplies	Related services ²	Total	Farm products	Farm supplies
1950-51	75.9	23.2	0.9	100.0	78.1	20.7
1955-56	74.9	23.4	1.7	100.0	76.8	21.0
1960-61	75.0	23.1	1.9	100.0	77.6	19.9
1961-62	75.5	22.7	1.8	100.0	78.0	19.7
1962-63	75.7	22.6	1.7	100.0	78.3	19.5
1963-64	75.5	22.9	1.6	100.0	78.1	19.7
1964-65	75.5	22.9	1.6	100.0	78.1	19.8
1965-66	75.1	23.3	1.6	100.0	78.1	19.8
1966-67	74.3	24.3	1.4	100.0	77.9	20.2
1967-68	73.8	24.8	1.4	100.0	77.4	20.8
1968-69	73.8	24.7	1.5	100.0	77.2	20.8
1969-70	74.2	24.2	1.6	100.0	77.7	20.3
1970-71	73.8	24.7	1.5	100.0	76.9	21.1
1971-72	72.6	25.8	1.6	100.0	76.0	21.9
1972-73	72.9	25.7	1.4	100.0	75.3	22.8
1973-74	74.7	23.9	1.4	100.0	76.2	21.9
1974-75	74.0	24.6	1.4	100.0	77.3	20.9
1975-76	70.6	27.9	1.5	100.0	74.4	23.5
1976-77	68.6	29.9	1.5	100.0	73.7	24.2
1978 ³	69.7	28.8	1.5	100.0	74.6	23.4
1979	69.3	29.3	1.4	100.0	74.1	24.0
1980	68.8	29.9	1.3	100.0	73.8	24.4
1981 ⁴	69.1	29.7	1.2	100.0	74.5	23.8
						1.7
						100.0

¹For years prior to 1950-51, see appendix table 7, FCS General Report 128, in libraries. Data for prior years are not entirely comparable due to revisions in statistical procedures in 1950-51.

²Services related to marketing or supply purchasing but not included in the volumes reported for these activities.

³Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

4Preliminary.

Gross and net volumes of business for marketing, purchasing, and related service activities are shown in table 6 for selected years from fiscal 1951 through calendar 1981. Both gross and net volumes exceeded 1980 totals.

Gross volume of farm products marketed by cooperatives increased from \$63.7 billion in 1980 to \$70.2 billion, an increase of 10.2 percent. The net volume of farm products marketed amounted to \$53.3 billion and accounted for 74.5 percent of the total net volume of cooperatives. The net marketing volume represented an increase of 8.9 percent from the \$48.9 billion for 1980. Gains resulted primarily from increases in the dollar volumes reported for grain, soybeans, soybean meal and oil, and dairy products.

Figure 2 illustrates the leading products marketed by cooperatives based on net marketing business volume. Grain, soybeans, and soybean meal and oil led with 37.1 percent of total net marketing volume, followed by dairy products and livestock products.

Gross volume of all farm supplies handled by cooperatives amounted to \$30.1 billion, an 8.9-percent increase from the \$27.7 billion gross in 1980. The net farm supply volume of \$17.1 billion accounted for 23.8 percent of the total net business volume, a 5.7-percent increase over the \$16.1 billion volume in 1980. Increases in net volumes of petroleum products, feed, and fertilizer largely accounted for this rise.

As shown in figure 3, leading farm supplies handled by cooperatives in terms of net business volume were petroleum products, with 33.1 percent of the total, followed by fertilizer and feed.

Receipts for services performed by all types of cooperatives amounted to \$1.2 billion, a 1.6-percent decrease from the 1980 service receipts. Service receipts represented 1.7 percent of total net business volume.

An estimated 69.4 percent of the 6,211 cooperatives, or 4,308 cooperatives, marketed farm products (table 7). Farm supplies were handled by 5,009 cooperatives, 80.6 percent of the total, while 4,608 cooperatives, or 74.2 percent of the total, performed one or more services related to farm product marketing and farm supply purchasing.

The 1981 estimated volume of farm products marketed and farm supplies purchased by cooperatives is shown by State in table 8.

Figure 2

Relative Importance of Major Farm Products Marketed by Cooperatives, 1981

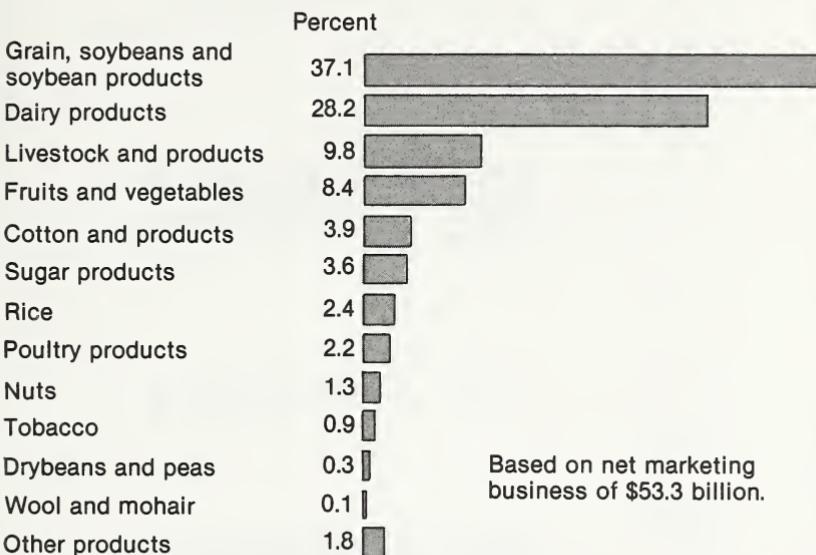


Figure 3

Relative Importance of Major Farm Supplies Handled by Cooperatives, 1981

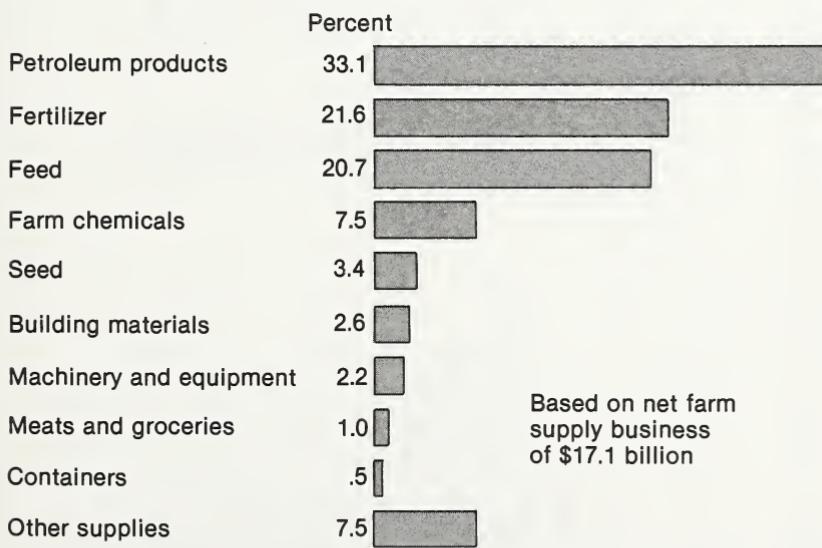


Table 7—Cooperative business volume by commodity, 1981¹

Commodity	Cooperatives handling ²	Gross volume (includes inter-cooperative business)		Net volume (excludes inter-cooperative business)		
		No.	Pct ³	1,000 dol.	Pct.	
Products marketed:						
Beans and peas (dry edible)	59	1.0		247,246	0.2	
Cotton and cotton products	480	7.7	2,469,549	2.4	2,099,426	2.9
Dairy products	470	7.6	16,572,275	16.3	15,051,776	21.0
Fruits and vegetables	388	6.2	5,985,812	5.9	4,495,937	6.3
Grain, soybeans, and soybean meal and oil	2,410	38.8	32,599,061	32.1	19,777,374	27.6
Livestock and livestock products	435	7.0	5,592,183	5.5	5,195,806	7.3
Nuts	49	0.8	692,510	0.7	692,510	1.0
Poultry products	74	1.2	1,299,874	1.3	1,157,406	1.6
Rice	57	0.9	1,279,314	1.3	1,279,314	1.8
Sugar products	41	0.7	1,935,670	1.9	1,924,522	2.7
Tobacco	36	0.6	471,817	0.5	471,817	0.7
Wool and mohair	140	2.3	60,110	0.1	35,488	0.1
Miscellaneous ⁴	114	1.8	956,131	0.9	949,604	1.3
Total farm products	54,308	69.4	70,161,551	69.1	53,284,950	74.5

Supplies purchased:						
Building materials.....	2,097	33.8	583,900	0.6	447,106	0.6
Containers and packaging supplies.....	658	10.6	298,970	0.3	84,676	0.1
Farm chemicals.....	3,684	59.3	2,225,248	2.2	1,275,032	1.8
Farm machinery and equipment	1,822	29.3	564,370	0.6	378,460	0.5
Feed.....	3,603	58.0	5,590,005	5.5	3,530,634	4.9
Fertilizer.....	3,789	61.0	6,910,499	6.8	3,676,275	5.1
Meats and groceries.....	482	7.8	219,350	0.2	163,480	0.2
Petroleum products	2,911	46.9	11,067,399	10.9	5,646,014	7.9
Seed.....	3,607	58.1	775,403	0.8	574,816	0.8
Miscellaneous supplies ⁶	4,326	69.7	1,892,180	1.9	1,282,137	1.8
Total farm supplies	55,009	80.6	30,127,323	29.7	17,058,631	23.8
Services provided:						
Trucking, cotton ginning, storage, grinding, locker plants, miscellaneous.....	54,608	74.2	71,190,385	1.2	71,190,385	1.7
Total business	56,211	100.0	101,479,260	100.0	71,533,967	100.0

¹Preliminary. Totals may not add due to rounding.

²The numbers are based on 1980 survey results, due to sampling procedures used in 1981.

³Number of cooperatives handling each commodity group is computed as a percentage of the total number of 6,211 active cooperatives listed.

⁴Includes coffee, forest products, hay, hops, seed marketed for growers, nursery stock, other farm products not separately classified, and sales of farm products not received directly from member-patrons.

⁵Because many cooperatives do more than one type of business, these totals are fewer than the number obtained by adding the number of cooperatives handling individual items or performing individual services.

⁶Includes plant equipment, automotive supplies, hardware, chicks, and other supplies not separately classified.

⁷Charges for services related to marketing or purchasing but not included in the volume reported for those activities.

Table 8—Cooperative business volume¹ by commodity and State, 1981²

Mississippi.....	217,726	186,550	81,782	79,771	2,192	2,192
Missouri.....	3,027	2,416	399,536	399,502	1,622	1,622
Montana.....	5,015		27,921	27,921		
Nebraska.....	7,237		144,069	140,880		
Nevada.....			18,698	18,698		
New Hampshire.....			31,853	28,945		
New Jersey.....			52,992	49,665	76,092	76,092
New Mexico.....			21,570			
New York.....	8,007	5,789	1,162,218	917,633	4,183	4,183
North Carolina.....			135,058	131,757	176,927	176,927
North Dakota.....			120,043	109,134	8,567	8,567
Ohio.....	6,468	655	455,580	442,290	10,750	10,750
Oklahoma.....			66,643	167,076	28,161	28,161
Oregon.....	673	555	93,035	207,103	2,432	2,432
Pennsylvania.....				178,079	236,601	236,601
Rhode Island.....				822,656	191,927	183,844
South Carolina.....			2,533	36,268	35,499	35,499
South Dakota.....				182,842	133,285	133,285
Tennessee.....				171,846	165,274	165,274
Texas.....				537,234	537,234	537,234
Utah.....				182,469	182,469	182,469
Vermont.....				263,279	250,680	250,680
Virginia.....					63,317	63,317
Washington.....	9,484	9,092	290,844	279,530	286,231	286,231
West Virginia.....			645,876	39,422	502,642	502,642
Wisconsin.....				2,715,248	38,004	454,582
Wyoming.....	5,240	1,972		2,581,893	3,695	3,524
Foreign ⁴				13,265	12,951	273,342
United States.....	247,246	153,970	2,469,549	2,009,426	16,572,275	15,051,776
					22,410	29,669
						24,901
						4,495,937

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1981²—Continued

State	Grain, soybeans, and soybean meal and oil		Livestock and livestock products		Nuts		Poultry and poultry products	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>								
Alabama	188,213	125,105	23,579	23,579	84,559	84,559	184,481	184,481
Alaska	20,965	20,965	43,964	43,964	12	12		
Arizona	309,262	262,527	8,365	8,365	73	73	6,486	6,486
Arkansas	37,571	37,571	108,284	108,284	446,556	446,556	27,056	27,056
California								
Colorado	277,834	235,813	184,979	184,978				
Connecticut								
Delaware	10,546	8,618	437	393				
Florida	52,612	40,579	22,185	22,185	16,282	16,282	89,515	88,462
Georgia	184,504	147,636			65,951	65,951	303,971	303,887
Hawaii								
Idaho	213,814	127,505	12,567	12,567				
Illinois	3,790,978	2,358,917	577,709	560,651				
Indiana	1,734,528	1,048,889	182,894	182,877				
Iowa	6,511,449	3,866,344	1,097,156	1,094,060				
Kansas	2,383,913	1,469,645	75,906	75,906				
Kentucky	39,448	37,004	61,787	60,575				
Louisiana	288,816	137,938	434	434				
Maine	723	723						
Maryland	39,841	32,988	174	156				
Massachusetts								
Michigan	447,867	203,509	2,200	2,200				
Minnesota	3,336,086	1,801,308	465,364	465,364	255,528	255,528	113,047	82,241

Mississippi	278,885	178,478	47,482	47,482	167	167	80,617	80,574
Missouri	2,621,182	1,260,189	447,856	446,723			398	398
Montana	355,697	210,362	7,115	6,643				
Nebraska	1,594,778	1,192,204	757,208	757,208				
New Hampshire	1	1						
New Jersey	9,234	9,234	8,230	8,230				
New Mexico	19,756	12,564						
New York	52,477	52,477	76,846	76,846				
North Carolina	30,748	30,748	19,821	19,363	4,357	4,357	94,236	21,264
North Dakota	1,646,165	1,139,414	40,291	31,640				90,750
Ohio	2,022,314	1,093,729	302,799	294,717				
Oklahoma	697,489	400,870	134,649	134,649	16,662	16,662	96	96
Oregon	183,617	156,376			11,367	11,367	31,798	14,647
Pennsylvania	11,152	11,152	8,525	8,489			18,278	17,899
Rhode Island								(3)
South Carolina	78,383	64,992	801	801	3,160	3,160	5,927	5,632
South Dakota	942,999	484,673	108,216	105,857				
Tennessee	133,895	106,372	1,641	1,641				
Texas	1,046,238	626,554	54,776	54,776	17,086	17,086	193	193
Utah	8,843	5,706	60,873	60,873			435	435
Vermont							56,664	21,751
							25	25
Virginia	79,349	68,427	26,266	24,081	22,563	22,563	51,026	50,752
Washington	761,462	604,599	120	120			1,408	141
West Virginia	73,082	73,082	351,493	7,805	7,599		34,040	34,040
Wisconsin	8,731	8,731	2,460	143,406			18,413	18,413
Wyoming				2,460				
Foreign ⁴	73,614	22,853			36	36	8,171	8,171
United States	32,599,061	19,777,374	5,592,183	5,195,806	692,510	692,510	1,299,874	1,157,406

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1981²—Continued

Mississippi	4,512	4,512	490	490	3,448	3,448	156	156
Missouri	6,650	6,650						
Montana			32,662	32,662			1,846	1,846
Nebraska			55,356	55,356			2,592	187
Nevada			490	490			268	268
New Hampshire							180	180
New Jersey							40	40
New Mexico		490	490	115				
New York		115			219,749	219,749	493	360
North Carolina		153,150	153,150	15,111	5,041	5,041	21	21
North Dakota							2,802	810
Ohio								
Oklahoma		43,800	43,800		1,172	1,172	249	249
Oregon							29	29
Pennsylvania							455	455
Rhode Island								
South Carolina								
South Dakota		3,432	3,432	1	34,987	34,987	15,900	11,237
Tennessee				52,172	1			
Texas		363,306	363,306	1	1			
Utah							5,126	2,338
Vermont								
Virginia					33,548	33,548	643	643
Washington					981	981	54	54
West Virginia						1,415	407	407
Wisconsin						8,250	963	487
Wyoming							5,311	3,319
Foreign ⁴					1,653	1,653		
United States		1,279,314	1,279,314	1,935,670	1,924,522	471,817	471,817	60,110
								35,488

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1981²—Continued

State	Miscellaneous marketing		Total farm products marketed		Building materials		Containers and packaging supplies	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
1,000 dollars								
Alabama.....	47	47	526,900	462,719 ⁽³⁾	4,109 ⁽³⁾	2,973 ⁽³⁾	418	418
Alaska.....			640,235	550,953	683	46	2,085	2,023
Arizona.....	1	1	894,988	842,077	7,544	3,530	1,810	1,809
Arkansas.....	59,908	59,908	6,465,286	5,540,846	11,801	10,275	132,805	21,835
California.....								
Colorado.....	1,920	1,384	724,795	645,995	5,542	2,990	2,080	780
Connecticut.....			80,454	71,248	5,291	3,253	108	66
Delaware.....			28,017	25,998	3,042	1,885	81	64
Florida.....	11,082	11,082	1,874,895	1,383,679	583	578	83,923	921
Georgia.....	192	192	803,222	761,476	6,951	5,387	885	885
Hawaii.....	2,944	2,944	25,568	25,325	434	131	685	559
Idaho.....	4,010	4,010	575,013	469,222	1,604	1,604	149	149
Illinois.....	5,292	4,754	4,959,683	3,509,521	24,366	20,279	295	295
Indiana.....	26	26	2,222,776	1,514,216	30,988	27,728	191	90
Iowa.....	902	364	8,324,850	5,648,043	92,239	81,959	18	16
Kansas.....	348	348	2,678,026	1,762,657	21,720	12,667	267	267
Kentucky.....			438,080	427,013	6,262	4,609	150	150
Louisiana.....	250	250	663,791	510,771	2,548	1,148	230	230
Maine.....	1,598	1,598	40,028	38,090	6,889	4,443	2,870	2,820
Maryland.....	1,190	1,190	314,275	291,952	6,177	4,050	50	33
Massachusetts.....								
Michigan.....	6,592	6,054	219,542	211,304	8,732	5,470	567	491
Minnesota.....	6,376	6,376	1,857,202	1,430,554	18,522	15,823	3,945	3,401
			6,311,214	4,227,458	38,773	35,793	1,437	1,236

Mississippi.....	2,027	2,027	713,197	579,561	4,579	3,330	1,199	1,199
Missouri.....			3,484,936	2,122,164	21,570	13,222	662	207
Montana.....	266	2	434,366	286,073	4,028			
Nebraska.....	13,556	13,556	2,582,879	2,166,496	20,257	13,856	45	6
Nevada.....	694	694	22,461	22,461	46	46	20	20
New Hampshire.....			34,796	31,888	2,123	1,308	43	26
New Jersey.....	229	229	150,643	147,316	8,670	5,408	1,292	1,225
New Mexico.....	3,253	3,253	51,429	42,344	22	22	346	346
New York.....	358	358	1,498,816	1,253,986	36,500	23,666	1,938	1,720
North Carolina.....			518,996	511,082	2,681		606	606
North Dakota.....	695	6	1,977,383	1,444,770	45,719	44,968	1,677	1,676
Ohio.....	500	500	2,874,615	1,897,711	15,288	10,136	1,744	1,741
Oklahoma.....	189	189	1,111,878	788,867	7,685	4,064	2,113	947
Oregon.....	8,769	8,769	723,757	650,224	5,844	5,844	5,347	5,284
Pennsylvania.....			1,122,446	1,045,666	36,918	21,900	2,802	2,251
Rhode Island.....			(3)	(3)	(3)	(3)	(3)	(3)
South Carolina.....			148,180	132,575	536	536	170	170
South Dakota.....	1	1	1,253,389	738,485	14,863	13,052	74	74
Tennessee.....	1	1	343,184	309,036	10,798	9,234	428	196
Texas.....	2,412	2,412	2,901,886	2,274,564	4,561	2,172	15,419	13,933
Utah.....	2,260	2,260	318,377	277,539	2,657	2,657	197	31
Vermont.....			263,304	250,705	7,367	4,513	533	475
Virginia.....			516,531	491,295	11,280	5,155	140	140
Washington.....	13,091	13,091	1,935,119	1,368,891	6,701	5,584	26,358	13,301
West Virginia.....	34	34	86,817	85,022	1,843	1,330	43	43
Wisconsin.....	737	199	3,442,508	3,099,453	4,562	2,868	703	511
Wyoming.....	391	3	40,108	34,146	591	591		
Foreign ⁴	803,989	801,489	940,511	881,514	1,407	1,000	22	13
United States.....	956,131	949,604	70,161,551	53,284,950	583,900	447,106	298,970	84,676

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1981²—Continued

State	Farm chemicals			Farm machinery and equipment			Feed			Fertilizer		
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>												
Alabama	43,144	24,397	5,503	5,301	137,049	90,183	160,483	94,931				
Alaska	366	364	4,238	4,179	13,300	9,475	2,324	1,201				
Arizona	65,368	39,545	10,372	6,888	78,935	50,541	152,793	87,247				
Arkansas	28,766	24,550	7,340	5,663	105,271	104,027	48,217	36,534				
California												
Colorado	21,781	8,581	5,328	1,619	72,387	34,356	65,089	39,486				
Connecticut	5,194	2,255	2,527	1,551	71,250	57,167	8,053	3,997				
Delaware	6,269	3,882	2,333	1,532	15,994	9,325	18,358	10,576				
Florida	13,469	13,254	2,890	2,889	61,320	43,494	91,942	37,689				
Georgia	29,807	22,052	6,939	6,939	149,228	100,856	102,485	67,376				
Hawaii	826	481	196	83	3,951	3,864	2,314	942				
Idaho	9,451	5,262	1,503	575	17,009	13,483	30,320	17,136				
Illinois	245,120	138,070	14,105	6,792	218,115	139,719	652,121	321,352				
Indiana	102,304	55,246	19,510	12,757	163,250	121,860	329,972	188,608				
Iowa	298,728	178,786	21,850	8,796	701,310	384,848	803,964	447,947				
Kansas	79,981	35,480	40,623	28,771	272,671	119,370	290,525	162,584				
Kentucky	28,315	22,460	10,245	8,261	68,833	46,845	75,657	55,403				
Louisiana	43,688	25,127	3,078	1,329	39,545	22,693	99,342	48,044				
Maine	7,539	4,012	5,500	4,328	44,271	24,554	18,925	9,799				
Maryland	20,100	14,281	9,601	7,535	59,415	39,015	55,345	36,987				
Massachusetts	9,450	4,705	4,101	2,539	55,072	38,163	7,585	4,543				
Michigan	31,489	21,365	7,818	7,172	66,232	53,609	124,910	60,715				
Minnesota	180,188	91,472	50,652	24,380	346,783	186,349	548,481	243,391				

Mississippi	108,423	71,801	4,240	2,238	105,404	35,064	216,951	108,758
Missouri	70,841	41,627	22,254	17,415	298,313	188,110	404,287	241,058
Montana	14,197	5,818	3,741	1,885	22,830	11,706	63,846	31,478
Nebraska	95,239	55,971	21,971	13,304	208,021	88,631	351,374	188,934
Nevada	18	18	25	25	204	204	68	68
New Hampshire	2,071	895	1,012	622	34,188	20,104	4,010	1,982
New Jersey	10,370	5,668	5,683	4,121	41,942	27,858	21,841	12,696
New Mexico	738	738	121	121	2,749	2,749	3,433	2,730
New York	55,447	25,800	33,699	23,672	290,097	242,213	117,900	60,730
North Carolina	21,453	14,309	5,005	880	90,107	81,473	58,749	39,056
North Dakota	45,968	27,767	27,845	23,615	60,379	23,753	161,683	89,209
Ohio	85,872	50,635	29,394	16,857	162,860	107,759	265,459	149,248
Oklahoma	24,282	6,481	8,314	3,573	102,104	37,675	106,103	65,362
Oregon	19,807	15,618	30,014	29,086	59,792	57,102	51,392	38,207
Pennsylvania	37,310	17,879	20,792	11,829	268,475	167,074	92,873	51,160
Rhode Island	(2)	(2)	(3)	(3)	(3)	(3)	(2)	(2)
South Carolina	6,681	6,447	735	735	16,861	14,355	19,692	18,829
South Dakota	37,474	20,921	8,492	4,452	110,121	64,457	104,086	62,911
Tennessee	66,256	31,673	11,756	9,663	179,423	99,407	168,796	73,202
Texas	68,042	41,188	10,748	4,628	81,605	48,685	181,989	105,774
Utah	4,879	2,366	3,127	2,570	50,749	49,528	56,349	9,522
Vermont	7,214	3,099	3,541	2,174	96,476	54,226	11,219	6,149
Virginia	43,133	28,747	13,056	8,231	140,196	117,576	172,088	73,762
Washington	32,141	20,135	24,362	21,372	62,177	59,836	93,521	50,391
West Virginia	7,159	5,342	2,605	1,980	35,487	29,654	18,150	12,561
Wisconsin	87,035	37,162	34,370	22,516	290,973	200,858	359,795	169,028
Wyoming	857	857	319	319	2,712	2,705	2,407	2,407
Foreign ⁴	1,030	443	896	701	14,581	4,077	113,234	28,574
United States	2,225,248	1,275,032	564,370	378,460	5,590,005	3,530,634	6,910,499	3,676,275

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1981²—Continued

State	Meats and groceries			Petroleum products			Seed	Miscellaneous supplies ⁷		
	Gross	Net	Gross	Net	Gross	Net		Gross	Net	
<i>1,000 dollars</i>										
Alabama.....	55	55	21,966	21,807	33,848	22,149	25,640	10,514		
Alaska.....			1,034	1,034	907	866	21,654	14,785		
Arizona.....	497	497	91,969	59,577	18,942	10,252	31,420	20,054		
Arkansas.....	25,468	11,571	24,591	1,467	27,646	26,360	59,619	48,864		
California.....										
Colorado.....	983	983	183,492	96,466	4,601	3,322	29,171	23,316		
Connecticut.....	7	7	28,685	17,075	2,556	1,401	11,232	6,580		
Delaware.....	90	56	56,021	22,151	3,377	2,047	7,891	4,495		
Florida.....										
Georgia.....										
Hawaii.....	16	10	323	118	58	47	280	186		
Idaho.....	120	120	88,070	49,532	6,352	5,709	21,869	15,102		
Illinois.....	887	887	672,661	356,021	57,071	37,787	70,703	38,320		
Indiana.....	606	606	445,503	281,254	15,649	12,760	28,712	25,290		
Iowa.....	3,521	2,792	1,082,153	494,573	44,950	32,240	79,605	54,818		
Kansas.....	5,291		740,833	271,091	8,945	8,524	80,026	61,217		
Kentucky.....	709	544	148,167	85,504	17,286	13,091	24,187	16,764		
Louisiana.....	201	201	22,243	10,142	23,034	16,109	24,117	18,553		
Maine.....	53	53	38,319	26,709	3,041	1,656	15,518	9,936		
Maryland.....	399		205,644	90,779	11,938	8,149	22,454	14,706		
Massachusetts.....	69	69	43,111	25,630	5,145	3,281	19,205	11,761		
Michigan.....	7,409	6,498	139,562	80,683	14,874	12,732	33,500	21,595		
Minnesota.....	36,189	25,690	841,081	414,694	45,773	39,524	173,080	93,460		

Mississippi.....	50,144	32,391	32,208	18,323	32,615	24,399
Missouri.....	455,446	294,730	50,087	38,042	64,334	28,057
Montana.....	1,526	173,870	96,141	2,678	1,392	52,934
Nebraska.....	27,142	687,603	332,349	7,137	6,225	62,966
Nevada.....	10	10	10	47	47	48,367
New Hampshire.....	4	28,710	17,100	1,015	553	63
New Jersey.....	25	86,477	61,256	4,831	2,984	63
New Mexico.....	90	3,814	3,814	474	446	2,387
New York.....	1,015	932,301	459,531	22,065	16,060	20,992
North Carolina.....	613	30,233	29,442	9,468	9,468	39,326
North Dakota.....	4,849	372,377	180,096	15,895	13,627	48,367
Ohio.....	3,428	285,634	189,613	40,951	30,164	62,143
Oklahoma.....	52	203,134	62,924	9,186	8,244	2,387
Oregon.....	1,338	95,432	56,893	11,302	10,359	19,458
Pennsylvania.....	140	508,313	298,285	19,500	11,879	27,662
Rhode Island.....		(3)	(3)	(3)	(3)	(3)
South Carolina.....	199	199	12,025	12,025	5,603	11,491
South Dakota.....	66	381,628	176,781	16,861	14,763	34,988
Tennessee.....		72,315	37,784	43,826	23,483	35,271
Texas.....	373	196,593	96,157	38,511	29,571	35,442
Utah.....		29,450	6,328	2,452	2,066	30,066
Vermont.....		43,422	25,941	3,472	1,855	13,019
Virginia.....	974	786	197,668	108,092	20,263	17,419
Washington.....	16,291	198,354	159,816	14,994	14,351	119,556
West Virginia.....	174	123	44,133	24,621	4,148	7,132
Wisconsin.....	33,146	24,209	612,084	324,663	27,145	84,768
Wyoming.....	1,617	1,617	19,977	19,977	506	2,876
Foreign ⁴	7,251	457,063	119,189	528	297	1,248
United States.....	219,350	163,480	11,067,399	5,646,014	775,403	1,282,137

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1981²—Continued

States	Total supplies			Cooperatives	Gross	Net	Total
	Gross	Net	Receipts ⁸				
1,000 dollars							
Alabama.....	432,176	272,728	5,628	84	964,705	741,075	
Alaska.....	(3)	(3)		1	(3)	(3)	
Arizona.....	46,591	33,971	9,070	16	695,897	593,995	
Arkansas.....	459,649	279,941	29,707	122	1,384,344	1,151,725	
California.....	471,524	291,145	80,657	240	7,017,399	5,912,582	
Colorado.....	390,455	211,899	13,511	84	1,128,761	871,405	
Connecticut.....	134,903	93,352	67	5	215,424	164,666	
Delaware.....	113,455	56,013	592	5	142,064	82,603	
Florida.....	272,579	116,775	41,962	66	2,189,435	1,542,416	
Georgia.....	362,138	266,161	4,389	21	1,169,749	1,032,026	
Hawaii.....	9,083	6,421	680	24	35,399	35,492	
Idaho.....	176,449	108,673	7,896	62	759,358	585,790	
Illinois.....	1,955,445	1,058,923	71,632	287	6,986,760	4,640,076	
Indiana.....	1,136,685	726,200	31,785	98	3,391,246	2,272,201	
Iowa.....	3,128,338	1,686,775	141,013	383	11,594,200	7,475,830	
Kansas.....	1,540,881	705,263	84,714	246	4,303,621	2,552,634	
Kentucky.....	379,810	253,631	5,409	71	823,299	686,052	
Louisiana.....	258,025	143,576	10,716	92	932,532	665,062	
Maine.....	142,924	88,309	1,897	10	184,849	128,296	
Maryland.....	391,122	215,804	3,408	31	708,805	511,163	
Massachusetts.....	153,036	96,652	336	14	372,914	308,292	
Michigan.....	448,261	283,591	14,590	119	2,320,053	1,728,736	
Minnesota.....	2,262,437	1,155,985	70,597	8,722,424	5,454,041		

Mississippi.....	555,763	297,504	14,702	1,283,662	891,766
Missouri	1,418,217	886,047	28,745	4,931,898	3,063,955
Montana	339,650	199,301	5,552	142	779,567
Nebraska	1,481,755	774,786	39,651	275	4,104,284
Nevada	501	501	363	3	23,326
New Hampshire	77,425	44,983	342	3	112,563
New Jersey.....	207,259	134,789	2,980	25	360,882
New Mexico.....	12,769	12,038	3,971	22	68,170
New York.....	1,607,385	937,443	21,462	233	3,127,663
North Carolina.....	245,171	198,593	2,313	32	766,481
North Dakota.....	823,294	471,521	21,730	422	2,822,607
Ohio	924,069	585,318	37,144	184	3,835,828
Oklahoma.....	489,954	208,778	36,443	144	1,638,274
Oregon.....	314,696	247,392	35,615	58	1,074,068
Pennsylvania	1,065,117	629,474	6,993	89	2,194,556
Rhode Island.....	(3)	(3)	(3)	1	(3)
South Carolina.....	73,994	70,065	169	13	222,343
South Dakota.....	725,436	392,464	18,607	242	1,997,432
Tennessee.....	630,431	319,913	5,419	104	975,094
Texas	633,284	372,546	146,103	404	3,681,274
Utah	162,881	84,027	10,471	28	491,728
Vermont.....	188,786	107,461	749	10	452,839
Virginia.....	656,198	396,785	6,627	106	1,179,355
Washington	507,024	380,387	60,974	129	2,503,116
West Virginia	120,873	83,327	1,161	47	208,852
Wisconsin.....	1,569,370	884,004	48,117	412	5,060,055
Wyoming.....	31,862	31,856	1,568	23	73,538
Foreign ⁴	598,192	155,542	2,040	1,540,743	1,039,095
United States.....	30,127,323	17,058,631	1,190,385	6,211	101,479,260
					71,533,967

See next page for footnote references.

Footnotes to table 8.

¹Data covering operations of cooperatives whose business years ended during the 1981 calendar year. Includes independent local cooperatives, federations, centralized cooperatives, and cooperatives with mixed organizational structures. The volume of products marketed is allocated to the State in which they originate and the volume of farm supplies is allocated to the State in which they are sold; service volume is allocated to the State of origin when services relate to farm products marketed or to the State of destination when related to farm supplies sold.

²Gross business volume includes sales between cooperatives. Net business volume excludes sales between cooperatives. Totals may not add due to rounding.

³Dollar volume is not shown to avoid disclosing operations of individual cooperatives.

⁴Includes value of farm products imported, farm supplies exported, services related to imported farm products or exported farm supplies, sales to domestic military installations, or sales of farm products not received directly from member-patrons.

⁵Included in dollar volume of California.

⁶Includes forest products, hays, hops, nursery stock, coffee, and other farm products not separately classified. Also includes manufactured food products and resale items marketed by cooperatives.

⁷Includes automotive supplies, hardware, chicks, and other supplies not separately classified.

⁸Receipts for services related to marketing and purchasing activities but not included in the volumes reported for these activities.

Balance Sheet

Combined assets for all farmer cooperatives totaled \$28.8 billion in 1981, down 2 percent from the \$29.4 billion for 1980 (table 9). Assets of cooperatives, eliminating intercooperative investments, were \$26.3 billion in 1981 compared with \$26.9 billion in 1980, a 2.5-percent decrease.

Total liabilities were \$17.9 billion in 1981, down 4.8 percent from the \$18.8 billion reported in 1980. Net worth, or member and patron equity, was \$10.9 billion, up 3.1 percent from the \$10.6 billion net worth for 1980. The proportion of total assets financed by equity went up from 36 to 37.9 percent.

Of the \$28.8 billion in total assets, marketing cooperatives accounted for nearly \$16.8 billion, 3.9 percent less than the \$17.5 billion for 1980 (table 10). Cooperatives whose principal products were grain, soybeans, and soybean meal and oil had total assets of more than \$6.7 billion in 1981 and \$7.5 billion in 1980, a 10.2-percent decrease. These cooperatives also maintained the largest proportion of investment in other cooperatives in both 1981 (13.3 percent) and 1980 (10.8 percent).

Table 9—Selected balance sheet data for farmer cooperatives by principal products marketed and major function, 1981

Principal products marketed and major function	Total assets	Total liabilities	Net worth
<i>1,000 dollars</i>			
Products marketed:			
Cotton and cotton products	1,039,451	606,848	432,603
Dairy products	3,496,721	2,328,085	1,168,636
Fruits & vegetables	2,876,577	2,049,196	827,381
Grain, soybeans, and soybean meal & oil.....	6,742,140	3,747,701	2,994,439
Livestock, wool, and products	160,352	86,314	74,038
Poultry products	663,953	489,560	174,393
Rice	476,186	313,305	162,881
Sugar products.....	959,497	672,665	286,832
Other products ¹	361,532	189,915	171,617
 Total farm products.....	16,776,409	10,483,590	6,292,819
Total farm supplies.....	11,939,999	7,343,459	4,596,540
Total related services	123,274	90,758	32,516
 Combined total.....	28,839,682	17,917,807	10,921,875

¹Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Assets of marketing cooperatives, excluding investments in other cooperatives, were nearly \$15.5 billion. This compares with \$16.2 billion reported in 1980.

Farm supply cooperatives had total assets of more than \$11.9 billion in 1981, compared with \$11.8 billion in 1980. Excluding intercooperative investments, assets amounted to \$10.6 billion in 1981, up less than 1 percent from 1980.

Current and term liabilities of marketing cooperatives totaled nearly \$10.5 billion in 1981, compared with \$11.5 billion in 1980. This represented more than half (58.5 percent) of total liabilities for all cooperatives in 1981 as well as in 1980 (60.9 percent). Grain marketing cooperatives showed more than \$3.7 billion, a 19.4-percent decrease from 1980. Combined liabilities financed 62.1 percent of total cooperative assets.

Table 10—Assets of farmer cooperatives by principal products marketed and major function, 1981

Principal products marketed and major function	Assets from own operations	Investments in other cooperatives	Total assets	Investments in other co-ops as percent of total
----- 1,000 dollars -----				Percent
Products marketed:				
Cotton and cotton products	968,896	70,555	1,039,451	6.8
Dairy products	3,301,452	195,269	3,496,721	5.6
Fruits & vegetables	2,802,774	73,803	2,876,577	2.6
Grain, soybeans, and soybean meal & oil	5,846,196	895,944	6,742,140	13.3
Livestock, wool, and products	153,044	7,308	160,352	4.6
Poultry products	634,409	29,544	663,953	4.4
Rice	470,745	5,441	476,186	1.1
Sugar products	956,190	3,307	959,497	0.3
Other products ¹	359,625	1,907	361,532	0.5
Total farm products.....	15,493,331	1,283,078	16,776,409	7.6
Total farm supplies.....	10,638,562	1,301,437	11,939,999	10.9
Total related services	122,430	844	123,274	0.7
Combined total.....	26,254,323	2,585,359	28,839,682	9.0

¹Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Net worth or member and patron equity for all marketing cooperatives totaled nearly \$6.3 billion in 1981 and \$6 billion in 1980. Marketing cooperatives again maintained more than half the total (57.6 percent), while farm supply cooperatives accounted for 42.1 percent. The highest percentage of total assets represented by net worth for all marketing cooperatives (47.5 percent) was for cooperatives primarily marketing other products.⁷ The lowest percentage (26.3 percent) was for cooperatives primarily marketing poultry products. Cooperatives classified as farm marketing and farm supply had 37.5 and 38.5 percent, respectively. Net worth represented 37.9 percent of the total assets for all cooperatives.

⁷Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Net Margins

Total net margins for all cooperatives in 1981 were more than \$1.4 billion, including intercooperative dividends and refunds of \$558 million. This was down 25.9 percent from 1980 net margins of \$1.9 billion. Intercooperative dividends were up 3.1 percent from 1980 dividends of \$541 million.

Marketing cooperatives' net margins (\$775 million) were 10.1 percent below the \$862 million generated in 1980 (table 11). Also, marketing cooperatives' net margins accounted for 53.8 percent of total net margins and 1.1 percent of gross sales volume. Total net margins for marketing cooperatives whose principal products were grain, soybeans, and soybean meal and oil decreased 15.8 percent from 1980 but maintained the largest percentage of marketing cooperative net margins in both 1981 (49.5 percent) and 1980 (52.9 percent).

Farmer cooperatives' net margins from their operations in 1981 totaled \$882 million—down 37.1 percent from \$1.4 billion reported in 1980. Almost 38.8 percent, or \$558 million, of total net margins were generated from other cooperatives, compared with 27.8 percent in 1980. Marketing cooperatives' net margins from other cooperatives increased to 36.9 percent of the total in 1981 from 29.4 percent in 1980. More than half (52.4 percent) of the net margins generated by grain cooperatives came from other cooperatives.

Other Service Organizations

Other types of service cooperatives or organizations were operating in 1981 besides those directly related to marketing and farm supply purchasing. Additional statistical data are shown in table 12.

Federal Land Bank Associations

Federal land bank associations totaled 485 and operated throughout the United States and the associated Commonwealth of Puerto Rico with more than 646,000 memberships. Texas led all States, with 11.8 percent of the total number of associations and 6 percent of total members. California ranked first with 8 percent of total loans made, and Iowa second with 6.8 percent. The associations made loans of more than \$12.2 billion to farm members.

Table 11—Farmer cooperative net margins¹ by principal products marketed and major function, 1981

Principal products marketed and major function	Total net margins	Margins from own operations	Margins from other cooperatives
<i>1,000 dollars</i>			
Products marketed:			
Cotton and cotton products	111,976	92,114	19,862
Dairy products	174,823	121,422	53,402
Fruits & vegetables	67,652	62,246	5,406
Grain, soybeans, and soybean meal & oil.....	383,816	182,713	201,103
Livestock, wool, and products	9,296	8,638	658
Poultry products	-12,203	-16,462	4,259
Rice	7,985	7,531	454
Sugar products.....	15,505	15,439	66
Other products ²	15,816	14,906	910
Total farm products.....	774,666	488,546	286,120
Total farm supplies.....	657,288	386,021	271,266
Total related services	8,385	7,544	841
Combined total.....	1,440,339	882,111	558,228

¹Cooperatives operating on a pooling basis are not included.

²Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Production Credit Associations

Production credit associations, totaling 423, made loans of more than \$35 billion to 520,410 stockholders.

Texas was the leader again with 7.1 percent of total associations. North Carolina led in number of stockholders with 7.7 percent of the total, while California again led in loans made with 9.7 percent.

Banks for Cooperatives

Thirteen banks for cooperatives made loans of nearly \$24.8 billion to 3,087 agriculturally oriented member cooperatives.

Minnesota again led all States with 11.2 percent of total members; Iowa was second with nearly 9.5 percent. However, Louisiana was the leader in loans made, with 11.9 percent of the total.

Rural Credit Unions

Rural credit unions numbered 981, with 2,450,831 members holding share savings of more than \$3.3 billion in 1981.

California led all States in number of associations with 9.9 percent of total, in members with 23.9 percent of the total, and in share savings with 27.0 percent of the total.

Rural Electric Cooperatives

Rural electric cooperatives, totaling 925, reported 9.1 million consumer members and revenue of more than \$11.5 billion.

Texas led all States, with 8.5 percent of total associations and 9.1 percent of total consumer memberships. However, Kentucky was the leader in revenue with 7.7 percent of the total.

Rural Telephone Cooperatives

Rural telephone cooperatives, totaling 253, with revenues of more than \$389 million, had 959,549 subscriber members. These cooperatives were all financed by the Rural Electrification Administration (REA).

Iowa had the largest number of cooperatives (14.2 percent of the total), while Texas accounted for more subscriber memberships (8.5 percent) and revenue (11.6 percent) than any other State.

Dairy Herd Improvement Associations

Dairy herd improvement associations totaled 1,083. Memberships numbered 40,933, and cows tested totaled nearly 3.4 million.

Minnesota accounted for 74, or 6.8 percent, of the total number of associations. New York (3,101), Pennsylvania (3,957), Minnesota (4,554), and Wisconsin (6,216), combined accounted for 43.6 percent of total members. Nearly 486,000, or more than 14 percent of the cows tested, were in California.

Table 12—Number, participation, and level of activity of service cooperatives by State¹

State	Federal Land Banks ²				Production Credit Associations ²				Banks for Cooperatives ²			
	Cooperatives	Members	Loans made during year	Cooperatives	Stockholders	Loans made during year	Members	Loans made during year	No.	1,000 dol.	No.	1,000 dol.
Alabama	12	15,925	215,605	8	8,793	336,774	25	127,893				
Alaska.....	(3)	178	536				2	48,530				
Arizona.....	1	733	31,741	2	1,111	392,218	10	25,398				
Arkansas.....	11	10,648	220,569	14	12,081	844,473	54	616,882				
California.....	25	19,077	978,992	22	17,756	3,401,131	108	2,392,924				
Colorado.....	12	13,196	361,246	8	4,381	1,111,674	56	195,078				
Connecticut.....	1	2,516	31,986	1	2,576	108,117	1	9				
Delaware.....	1	1,001	15,123	1	1,242	42,839	2	2,157				
Florida.....	7	11,200	405,904	9	7,154	482,284	42	430,259				
Georgia.....	15	28,545	321,361	20	15,320	682,995	13	552,939				
Hawaii.....	1	389	24,956	1	375	64,456	2	15,800				
Idaho.....	11	11,632	107,783	5	6,739	874,470	22	58,670				
Illinois.....	17	29,264	609,512	17	15,689	1,183,580	181	840,656				
Indiana.....	23	23,393	417,002	10	25,940	1,401,007	69	915,204				
Iowa.....	19	37,378	828,835	16	12,389	2,549,190	291	1,760,786				
Kansas.....	16	30,235	554,983	13	4,861	1,096,822	203	2,705,234				
Kentucky.....	10	12,944	205,022	9	31,653	841,033	48	306,213				
Louisiana.....	9	10,707	350,309	7	10,282	489,120	42	2,956,497				
Maine.....	2	810	23,101	2	1,285	47,323	6	9,798				
Maryland.....	5	4,560	59,879	5	5,569	97,886	17	29,391				
Massachusetts							8	182,102				
Michigan.....	11	22,440	410,854	8	11,364	709,401	53	284,035				
Minnesota.....	17	31,318	754,618	16	14,883	1,882,712	346	2,634,223				

Mississippi.....	12	12,083	316,089	10	12,832	563,991	51	340,744
Missouri.....	12	22,182	283,012	12	20,173	905,273	49	1,057,368
Montana.....	10	9,100	122,638	11	7,456	803,357	48	38,214
Nebraska.....	8	21,146	476,613	14	8,846	1,709,128	164	405,106
Nevada.....	1	569	16,700	1	470	87,499		
New Hampshire.....					(4)			
New Jersey.....	3	2,058	26,713	3	1,700	56,099	5	1,383
New Mexico.....	4	2,739	72,732	4	1,321	222,946	15	21,274
New York.....	12	11,205	109,854	12	14,724	206,361	103	551,967
North Carolina.....	15	36,808	315,739	17	39,994	667,283	9	143,655
North Dakota.....	8	13,622	358,253	5	10,819	905,629	208	570,144
Ohio.....	19	16,390	315,536	11	37,587	1,266,319	99	543,167
Oklahoma.....	12	19,563	374,583	14	7,421	836,082	94	505,609
Oregon.....	10	8,001	205,481	8	6,797	725,222	31	373,770
Pennsylvania.....	9	10,514	124,057	9	15,421	293,862	15	140,198
Rhode Island.....								
South Carolina.....	9	17,174	183,241	11	13,903	300,684	3	467
South Dakota.....	7	14,353	164,903	9	5,246	711,610	68	63,860
Tennessee.....	12	17,032	184,145	9	32,460	687,457	69	207,800
Texas.....	57	39,059	408,205	30	20,944	2,203,443	152	1,474,608
Utah.....	3	3,185	82,261	2	1,986	346,578	13	66,064
Vermont.....	2	1,852	20,379	2	2,087	50,932	4	14,101
Virginia.....	8	13,968	149,215	8	12,983	175,446	39	338,780
Washington.....	9	10,135	245,997	6	5,169	615,041	78	558,362
West Virginia.....	2	2,551	20,183	2	2,725	19,581	12	5,879
Wisconsin.....	13	17,468	595,419	17	23,881	1,675,631	140	263,407
Wyoming.....	1	2,591	47,569	1	755	191,943	5	2,777
Puerto Rico.....	1	2,935	13,468	1	1,267	20,177	3	4,193
Grand total.....	485	646,372	12,202,902	423	520,410	35,007,079	3,078	24,783,575

See end of table for footnote references.

Table 12—Number, participation, and level of activity of service cooperatives by State¹—Continued

State	Rural Credit Unions ⁵				Rural Electric Cooperatives ⁶				Rural Telephone Cooperatives ⁶		
	Co-ops	Members	Share/ savings	Co-ops	Members (consumers)	Revenue	Co-ops	Members (subscribers)	Revenue	No.	1,000 dol.
Alabama.....	14	16,410	19,480	22	294,839	325,154	3	17,459	4,883		
Alaska.....	2	10,330	16,567	13	107,903	132,739	7	19,249	18,073		
Arizona.....	12	16,249	11,453	7	69,140	241,748	1	2,303	2,528		
Arkansas.....	5	2,845	2,628	20	270,792	393,880	2	5,600	2,159		
California.....	97	585,553	896,000	3	10,539	7,191					
Colorado.....	22	24,123	20,030	24	242,422	481,599	7	12,716	6,908		
Connecticut.....	3	3,935	3,005								
Delaware.....	1	1,753	2,506	1	30,942	21,214					
Florida.....	24	59,364	62,537	16	403,805	400,119					
Georgia.....	20	20,231	13,885	43	688,558	784,453	4	18,854	5,974		
Hawaii.....	22	71,817	146,900								
Idaho.....	17	12,680	13,159	9	40,500	25,513	3	8,102	3,177		
Illinois.....	20	42,520	38,718	30	204,263	224,255	7	22,818	7,588		
Indiana.....	21	27,688	80,997	43	309,733	378,904	9	21,999	7,240		
Iowa.....	23	11,376	8,832	52	171,956	254,230	36	49,679	14,690		
Kansas.....	42	82,284	150,901	37	162,569	211,773	11	36,993	17,298		
Kentucky.....	8	11,313	6,979	28	436,796	891,493	8	67,277	18,436		
Louisiana.....	14	14,176	10,973	14	279,439	497,977					
Maine.....	16	19,263	13,961	4	12,093	6,684					
Maryland.....	10	29,526	37,285	2	87,971	89,686					
Massachusetts.....	10	10,657	8,440								
Michigan.....	36	297,651	240,488	15	179,923	141,843					
Minnesota.....	49	108,363	137,349	50	414,474	529,215	19	58,385	20,123		

Mississippi	12	5,126	1,573	23	399,755	492,029	8	43,948	14,735
Missouri	8	13,088	12,614	47	411,774	659,104	7	34,704	27,674
Montana	30	50,225	102,151	25	87,259	66,591	10	11,901	4,695
Nebraska					11,360	81,213			
Nevada	7	21,309	29,483	3	12,527	12,717			
New Hampshire	3	1,377	511	1	45,039	29,698			
New Jersey	10	11,273	6,614	1	7,872	5,142			
New Mexico	6	24,784	68,533	17	116,622	172,069	5	8,589	6,362
New York	32	85,569	94,284	4	10,471	3,993			
North Carolina	29	32,251	20,192	29	444,066	292,441	9	74,394	17,751
North Dakota	48	80,797	162,804	26	92,887	402,506	10	53,317	24,603
Ohio	18	36,607	21,037	28	227,711	348,159	6	5,601	1,329
Oklahoma	8	7,008	8,330	27	299,399	348,784	2	29,898	17,211
Oregon	20	36,206	45,067	14	91,101	76,232	9	29,751	15,115
Pennsylvania	26	29,172	32,912	13	151,825	138,347			
Rhode Island	3	18,103	59,685						
South Carolina	7	11,220	8,953	22	316,591	328,846	6	76,444	29,152
South Dakota	19	9,734	10,453	34	103,656	143,259	14	37,044	14,791
Tennessee	12	10,516	8,629	20	505,985	443,876	7	79,382	23,287
Texas	39	43,099	62,506	79	830,938	754,883	21	81,162	45,181
Utah	12	7,955	6,933	5	18,594	89,857	3	6,686	3,246
Vermont	14	11,487	8,129	2	15,999	10,418			
Virginia	12	17,542	14,097	14	228,454	197,877	5	11,625	3,516
Washington	20	91,072	134,603	9	49,731	34,911			
West Virginia	3	2,826	1,192	1	4,107	1,880	2	2,136	570
Wisconsin	88	307,320	448,929	30	161,001	252,169	11	30,637	10,372
Wyoming	7	5,058	3,494	14	63,768	93,626	1	896	445
Puerto Rico									
Grand Total	981	2,450,831	3,316,781	925	9,127,149	11,520,097	253	959,549	389,112

See end of table for footnote references.

Table 12—Number, participation, and level of activity of service cooperatives by State¹—Continued

State	Dairy Herd Improvement ⁷		State	Dairy Herd Improvement ⁷	
	Co-ops ⁸	Members (herds)		Cows tested	Co-ops ⁸
Number					
Alabama	18	218	26,425	Nevada	4
Alaska	1	1	62	New Hampshire	8
Arizona	1	127	50,954	New Jersey	5
Arkansas	31	203	13,387	New Mexico	4
California	26	1,307	485,765	New York	48
Colorado	6	256	33,590	North Carolina	23
Connecticut	6	301	23,998	North Dakota	22
Delaware	1	49	4,434	Ohio	17
Florida	9	77	21,895	Oklahoma	20
Georgia	30	341	41,903	Oregon	10
Hawaii	1	8	4,014	Pennsylvania	60
Idaho	28	546	56,814	Rhode Island	3
Illinois	44	1,280	75,210	South Carolina	11
Indiana	46	969	59,659	South Dakota	17
Iowa	53	1,483	76,680	Tennessee	42
Kansas	43	785	53,992	Texas	44
Kentucky	36	560	36,420	Utah	17
Louisiana	14	322	31,898	Vermont	22
Maine	12	462	24,148	Virginia	37
Maryland	11	661	57,589	Washington	17
Massachusetts	7	346	19,928	West Virginia	8
Michigan	1	1,607	130,146	Wisconsin	33
Minnesota	74	4,554	236,638	Wyoming	8
Mississippi	24	303	29,537	Puerto Rico	1
Missouri	41	911	61,289	Grand total	1,083
Montana	7	113	9,574		40,933
Nebraska	31	515	35,923		3,382,977

¹For year ended December 31, 1981.

²Farm Credit Administration.

³Listed by location of cooperative headquarters.

⁴Served by PCA in Connecticut.

⁵Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.)

⁶Rural Electrification Administration, USDA.

⁷Agricultural Research Service, USDA.

⁸Official DHI (includes Dairy Herd Improvement Registry).

U.S. Department of Agriculture Agricultural Cooperative Service

Agricultural Cooperative Service provides research, management, and educational assistance to cooperatives to strengthen the economic position of farmers and other rural residents. It works directly with cooperative leaders and Federal and State agencies to improve organization, leadership, and operation of cooperatives and to give guidance to further development.

The agency (1) helps farmers and other rural residents obtain supplies and services at lower costs and to get better prices for products they sell; (2) advises rural residents on developing existing resources through cooperative action to enhance rural living; (3) helps cooperatives improve services and operating efficiency; (4) informs members, directors, employees, and the public on how cooperatives work and benefit their members and their communities; and (5) encourages international cooperative programs.

The agency publishes research and educational materials, and issues *Farmer Cooperatives*. All programs and activities are conducted on a nondiscriminatory basis, without regard to race, creed, color, sex, or national origin.